

5 METHOD FOR DETERMINING DIFFERENCES IN
 MOLECULAR INTERACTIONS AND FOR
 SCREENING A COMBINATORIAL LIBRARY

10 ABSTRACT OF THE DISCLOSURE

15 The invention includes a method for determining the differences between the
 molecular interactions of two different mixtures of molecules and identifying ligands
 specific for molecules in one mixture. The method utilizes a combinatorial library to
20 compare the molecular interactions of the two mixtures and eliminates those interactions
 that are common to both mixtures and those that are unique to the first mixture, such that
 interactions essentially unique to the target mixture are identified. Ligands specific for
 molecules in the target mixture can then be identified. The invention also includes a
 method of screening a combinatorial library to distinguish between true positive beads and
 false positive beads and to provide for the identification of ligands specific for target
 molecules.